

(19)

(11) Publication number:

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PATENT ABSTRACTS OF JAPAN

(21) Application number: 01041845

(51) Intl. Cl.: C07C 43/20 C07C 69/92 C07
19/20 C09K 19/30

(22) Application date: 23.02.89

(30) Priority:	26.02.88 JP 63 42215	(71) Applicant: SHOWA SHELL SEKIY
(43) Date of application publication:	21.12.89	(72) Inventor: SUZUKI GIICHI KAWAMURA ICHIRO MOGAMITANI HIROYU
(84) Designated contracting states:		(74) Representative:

(54) LIQUID CRYSTAL
SUBSTANCE

(57) Abstract:

NEW MATERIAL: A liquid crystal substance of benzyl phenylether structure shown by formula I [R is 1-20C alkyl or alkoxy; R* is optically active group and contains asymmetric carbon atom; X is group shown by formula II or formula III; l is 1-3; R' is H or lower alkyl; Y is -COO- or -O-; (A) and (B) are each independently group shown by formula IV-formula VII, etc.; further when (A) is group shown by formula VII, (B) and X are each single bond].

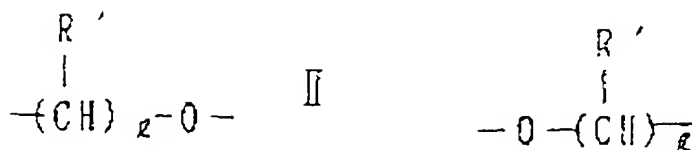
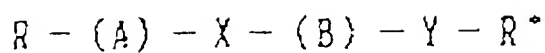
EXAMPLE: [(+)-1,1,1-Trifluoro-2-decyl-4-(4'-octyloxybiphenyl-4"-methyleneoxy) benzoate].

USE: Useful as a component for liquid crystal composition or electric display element having photochemical and chemical stability and large spontaneous polarization.

showing high-speed response and applicable to optical switching, etc.

PREPARATION: For example, a compound shown by formula VIII as a starting raw material is processed through a compound shown by formula IX to give a compound shown by the formula I.

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